PHOENiX ColorMeter

Smart Color Measuring Instrument

Accurate Color. Smarter Decisions.

A compact, high-performance color measurement instrument designed to deliver precise, reliable, and consistent results across a wide range of materials and industries.

D/8 Measurement Geometry
Utilizes diffuse illumination with 8° viewing geometry and SCI (Specular Component Included) to provide consistent and accurate color measurements.

Advanced Spectral Sensor
Equipped with a spectral sensor that captures reflectance data, enabling comprehensive color analysis beyond conventional tristimulus color meters.

Automatic Calibration
Features an advanced automatic calibration system to ensure consistent measurement accuracy and long-term reliability.

Cloud-Based Data Management
Measurement data can be uploaded to a cloud platform, where color information can be edited and managed.

Standalone and Connected Operation
Operates independently or connects to a mobile application or PC, displaying measurement results directly on the connected device.

Intelligent Color Matching
Identifies similar colors from a color database and supports users in uploading and managing their own color libraries.

Multi-Platform Compatibility
Compatible with Android, iOS, and Windows operating systems.

Widely used for precise color quality control in a wide range of industries

Coatings

Printing

Plastics

Textiles

Cosmetics

Food

PHOENiX ColorMeter

Technical Specifications

Measurement System

Measurement Geometry	D/8 (Diffuse Illumination, 8° Viewing Geometry)
Measurement Mode	SCI (Specular Component Included)
Light Source	Full-Wavelength-Balanced LED Light Source
Wavelength Range	400–700 nm
Wavelength Interval	10 nm
Measurement Aperture	8 mm
Measurement Time	Approximately 1 second
Repeatability	ΔE ≤ 0.05, based on 30 consecutive measurements of a white calibration tile at 5-second intervals after calibration

Color Spaces and Measurement Indices

Color Spaces	CIE L*a*b*, CIE L*C*h°, Hunter Lab, CIE L*u*v*, XYZ, Yxy, RGB, and Munsell
Spectral Data	Spectral Reflectance
Color Difference Formulas	ΔE*ab, ΔE*CMC, ΔE*94, and ΔE00
Whiteness Indices	ASTM E313-00, ASTM E313-73, CIE/ISO, AATCC, Hunter, and Taube–Berger–Stensby
Yellowness Indices	ASTM D1925, ASTM E313-00, and ASTM E313-73
Additional Functions	Blackness Index (My, dM), Staining Fastness, Color Fastness, Tint (ASTM E313-00), CMYK Color Density (A, T, E, M), Metamerism Index (MI), Opacity, and Color Strength

Illuminants and Standard Observers

Supported Illuminants	A, B, C, D50, D55, D65, D75, F1–F12, CWF, U30, 35, DLF, NBF, TL83, and TL84
Standard Observer Angles	2° and 10°

Display and User Interface

Display Type	IPS Full-Color Screen
Screen Size	1.14 inches
Screen Resolution	135 × 240 pixels
Operating Language	English

Connectivity and Software Compatibility

Interface	USB
Operating Systems	Android, iOS, and Windows
Calibration	Automatic Calibration

Power Supply

Battery Type	Rechargeable Battery
Battery Voltage	4.2 V
Battery Capacity	760 mAh
Claimed Battery Life	Up to 10,000 continuous tests, as specified by the manufacturer

Physical Specifications

Weight	Approximately 90 g
Dimensions	Ø31 mm × 102 mm (Diameter × Height)

For more information please visit **http://www.phoenixmeter.com**

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